Continental
The Future in Motion

ContiPressureCheck™

The tire pressure monitoring system

GB User Manual

ContiPressureCheck™

1 General 6
- 1.1 Information on this User Manual 6
- 1.2 Liability disclaimer 6
- 1.3 Copyright 6
- 1.4 Abbreviations 7
- 1.5 Explanation of symbols 7
- 1.6 Warnings 8
- 1.7 Manufacturer's address 9
- 1.8 After-sales service 9

2 Technical data Display 9

3 Safety 10
- 3.1 Intended use 10
- 3.2 General safety instructions 11
- 3.3 Particular hazards 12

4 Tool overview 13
- 4.1 Operating keys 13

5 Mounting the Display 14
- 5.1 Display Holder with suction caps for attaching to the windshield 15
- 5.2 Display Holder for screwing to the dashboard 15

6 Commissioning 17
- 6.1 Start screen 17
- 6.2 Automatic Language Query 17
  - 6.2.1 Setting the language for Automatic Language Query 18
  - 6.2.2 Activate/deactivate Automatic Language Query 18

Table of Contents

7 Operation 19

7.1 Safety instructions 19

7.2 Setup menu 20

7.2.1 Open the settings menu 20

7.2.2 Navigating the settings menu 20

7.2.3 Day/night mode 21

7.2.4 Switching the buzzer ON/OFF 22

7.2.5 Display brightness 23

7.2.6 Selecting the language 24

7.2.7 Selecting units 25

7.3 Switching between the vehicle view and the settings menu 26

7.4 Vehicle view: Standard screen to monitor pressure/temperature 27

7.5 Operating without automatic trailer detection 28

7.5.1 General 28

7.5.2 Start screen for pressure/temperature monitoring 29

7.5.3 Switching between pressure and temperature display 30

7.5.4 Warning message overview 30

7.5.5 Low-level warning messages 32

7.5.5.1 Tire Sensor defect 32

7.5.5.2 No signal 33

7.5.5.3 Temperature 34

7.5.5.4 Low pressure 34

7.5.6 High-level warning messages 35

7.5.6.1 Check Sensor 35

7.5.6.2 Very low pressure 36

7.5.6.3 Fast pressure loss 37

7.5.7 Multiple warnings 38

7.6 Operating with Automatic Trailer Learning (ATL*) 40
7.6.1 General 40
7.6.2 Start screen for automatic trailer learning 42
7.6.2.1 No trailers found with Tire Sensors 43
7.6.2.2 Special cases with automatic trailer learning 44
7.6.3 Warning messages in the case of automatic trailer detection 48
7.6.4 Multiple warnings for trailer tires in the case of automatic trailer detection 49
7.6.5 Multiple warnings for truck and trailer tires in the case of automatic trailer detection 51
7.6.6 Automatic Trailer Learning with Surrounding Observer (SO*) 52
7.7 Automatic Single Wheel Exchange (SWE) 54

8 Error messages 55

9 Pressure Check Indicator 56
9.1 Pressure Check Indicator operating modes 56
9.2 Readjusting the Pressure Check Indicator 59

10 Cleaning the Display 60

Table of Contents

11 Maintenance 61

12 Disposal 61

12.1 General instruction 61
12.2 Tire Sensor 62
12.3 Electrical/electronic components 62
12.4 CPC collection point 62

13 Declaration of Conformity 63

14 Certifications 64

14.1 Radio permit 64
14.2 General Operating Permit 64
14.3 ADR 64

15 Index 65

1 General

1.1 Information on this User Manual

The information listed here serves to become familiar with the Display and the ContiPressureCheck™ system and make full use of its functions.

The User Manual must always be in the immediate vicinity of the Display. It must be read and observed by everyone who is involved with

- installation,
- startup and
- operation

of the Display and of the ContiPressureCheck™ system.

1.2 Liability disclaimer

The manufacturer assumes no liability for damage and operational faults resulting from:

- failure to observe this User Manual,
- use for other than the intended purpose,
- faulty installation,
- technical changes and modifications,
- misuse,
- failure to maintain in accordance with manufacturer instructions.

1.3 Copyright

This User Manual is copyrighted.

This User Manual may not be duplicated either wholly or in part without the express permission of Continental Reifen Deutschland GmbH.

1.4 Abbreviations

The following abbreviations are used in this User Manual:

Abbreviation	Meaning
ATL*	**A**uto **T**railer **L**earning
CPC	**C**onti**P**ressure**C**heck™
SO*	**S**urrounding **O**bserver
SWE	**S**ingle **W**heel **E**xchange
HHT	**H**and-**H**eld **T**ool

* Optional functions that are not activated for all CPC systems.

1.5 Explanation of symbols

Warnings in this User Manual are also indicated by warning symbols.

The following warning symbols are used in this User Manual:

Symbol	Meaning
	General warning
	General instructions and useful suggestions on handling
	Note on observing environmental regulations for disposal
	Electric/electronic components with this symbol may not be disposed of in the normal household waste.

1.6 Warnings

In the current User Manual, the following warnings are used:

⚠ WARNING

A warning of this hazard level indicates a hazardous situation.

If the hazardous situation is not avoided, it can result in serious injuries.

► Follow the instructions in this warning to avoid serious injuries to persons.

ATTENTION

A warning of this hazard level indicates potential damage to equipment.

If the situation is not avoided, it can result in equipment damage.

► Follow the instructions in this warning to avoid the equipment damage.

NOTE

► A note draws attention to additional information of importance for further work or which simplifies the work step described.

1.7 Manufacturer's address

Continental Reifen Deutschland GmbH

Büttnerstraße 25

30165 Hannover

Germany

www.contipressurecheck.com

1.8 After-sales service

In the case of technical questions on the Display, Pressure Check Indicator or the entire ContiPressureCheck™ system, please contact your CPC supplier or the authorized garage that installed the CPC system.

2 Technical data Display

Dimensions (L x W x H)	117 x 107 x 40 4.60 x 4.21 x 1.57	mm inches
Weight	240 8.47	grams oz
Supply voltage	12/24	Volts
Minimum mating cycles: - diagnosis plug - connecting plug	 100 10	 cycles cycles
Minimum mating cycles between Display and Display Holder	5	cycles
Operating temperature	-40 to 85 -40 to 185	°C °F
Readability of the LCD (screen) without restrictions	-20 to 80 -4 to 167	°C °F

3 Safety

3.1 Intended use

The Display is only intended for displaying the data detected by the CPC system (air pressure and temperature of the tires) as well as warning messages.

The Pressure Check Indicator installed in the trailer is intended to be used for displaying the status of the CPC system at the trailer using light signals.

Use for any other purpose is not considered as intended use.

⚠ WARNING

Hazard from use for other than the intended purpose!

Any use other than and/or going beyond the intended use of the CPC system can lead to damage and serious injuries.

▶ Use the system only for its intended purpose.

No claims of any kind will be accepted for damage resulting from use for other than the intended purpose.

In such cases, the risk must be borne solely by the user.

3.2 General safety instructions

Observe the following general safety instructions to ensure safe handling of the CPC system:

- The operator must ensure that tires in which Tire Sensors are installed, are only operated in vehicles, in which monitoring is ensured by the CPC system.
- If continuous technical monitoring is not ensured, the operator must make sure that the condition of the Tire Sensor is checked regularly, at the latest after 20 000 km (12 425 miles).
- In the case of continued use of the tires on other vehicles where monitoring is not ensured, the Tire Sensors must first be removed from the tires.
- The operator of the vehicle must ensure that the CPC system is properly installed and put into operation. This includes setting the nominal pressures recommended in the tire guide, correct assignment of the Tire Sensors to the wheel position, etc.

Observe the following general safety instructions to ensure safe handling of the Display:

- Check the Display for visible damage before using. Do not put a damaged Display into operation.
- Never open the housing of the Display.
- The Display is designed for a temperature range from -40 °C to 85 °C (-40 to 185 °F) however, temporary Display errors may occur at temperatures lower than -20 °C (-4 °F) or above 80 °C (167 °F).
- Protect the Display against moisture and penetration by liquids.

3.3 Particular hazards

Special characteristic in the case of vehicles for hazardous substances (ADR):

- If the CPC system is installed in a vehicle for hazardous materials (ADR) and if the CPC system remains switched on, although the vehicle's ignition is switched off, it is possible that sparks, other ignition sources or similar could lead to a reaction with the hazardous material in the event of a fault. This can result in accidents and serious injuries.
  - For this reason, when parking vehicles for hazardous substances, it is absolutely necessary to disconnect the CPC system from the power supply (normally via the battery main switch)

4 Tool overview

4.1 Operating keys

Button	Symbol	Task
1	**SET**	Switch between vehicle view and settings
2	⇩	Navigation between menu items and warning messages
3	**OK**	Confirmation of the selected menu item
4		Switch between pressure or temperature display in the vehicle view

5 Mounting the Display

⚠ WARNING

Risk of injury!

The risk of injury cannot be ruled out, if the installation instructions are not followed.

- ▶ Do not mount the Display in front of the driver and the front passenger(s).
- ▶ Do not mount the Display in the impact zone of the body or the head and not in the airbag area (driver & front passenger).

NOTE

The vehicle driver must have a sufficient field of view under all operating and weather conditions.

- ▶ Mount the Display so that the driver's field of view is not restricted.

5.1 Display Holder with suction caps for attaching to the windshield

To attach the Display to the windshield use the Display Holder with the suction caps.

- Connect the Display with the Display Holder supplied. Make sure that the Display is completely engaged and locked into the Holder.
- Choose a suitable location on the windshield. Make sure that you install in a location which would avoid glare due to sunlight.
- Loose the screws to adjust the Display, and tighten them when the desired position is set.

NOTE

▶ The Display must always be clearly visible to the driver.

National regulations!

▶ If national regulations stipulate that devices may not be attached to the windshield, mount the Display with the holder according to chapter ***„5.2 Display Holder for screwing to the dashboard“***

5.2 Display Holder for screwing to the dashboard

To mount the Display to the dashboard, glue and screw the Display Holder to the dashboard.

- Connect the display with the Display Holder supplied.
- Choose a suitable location on the dashboard. Make sure that you install in a location which would avoid glare due to sunlight.

ATTENTION

Damage!

In the case of improper screwing of the Display Holder, it is possible to damage components or cables in the dashboard of the vehicle:

▶ Before screwing the Display Holder tight, make sure that components or cables cannot be damaged when fixing the Display Holder.

- Remove the Display from the Holder.
- Pull of the protective foil of the contact surfaces on the holder and glue the holder to the desired location.
- Also screw the holder onto the dashboard with the 2 screws supplied.
- Connect the Display with the Display Holder. Make sure that the Display is completely engaged and locked into the Holder.
- Adjust the Display by turning it in the desired direction.

The Display must always be clearly visible to the driver.

	NOTE
	It is recommended to fix the Display by gluing and screwing! ▶ The adhesive foil compensates unevenness between the Holder and installation location and ensures a tighter fit. ▶ The screws secure the Holder against vibration during operation and therefore against unintentional loosening.

	NOTE
	Dismantling the Display Holder! ▶ After dismantling the Display Holder, two holes remain in the dashboard. In addition, residual adhesive could remain on the dashboard.

6 Commissioning

6.1 Start screen

The start screen is displayed for **3 seconds** after ignition.

6.2 Automatic Language Query

	NOTE
	▶ By default, the automatic language query is activated for initial startup

- If the Automatic Language Query is **activated**, the display switches from the start screen to the settings - Language view, see chapter ***„6.2.1 Setting the language for Automatic Language Query“***.
  If no button is pressed within 15 seconds, the display switches automatically to the vehicle view.
- If the Automatic Language Query is **deactivated**, the display immediately switches from the start screen to the vehicle view.

6.2.1 Setting the language for Automatic Language Query

If the Automatic Language Query is **activated,** the Settings - Language view appears for **15 seconds**.

- Press the ⇩ -button to select a language (the selected language is highlighted).
- Press the **OK**-button to confirm the language selection.
  The display switches then to the vehicle view.

6.2.2 Activate/deactivate Automatic Language Query

- Press the **SET**-button, the Setup view is displayed.
- Press the ⇩ -button to select the "Language" menu item.
- Press the **OK**-button to confirm.
- Press the ⇩ -button to select the "Autostart" menu item.
- Select "Autostart ON“ or "Autostart OFF" with the **OK**-button.

7 Operation

7.1 Safety instructions

⚠ WARNING

Danger of accident!

Operating the Display while driving can lead to accidents.

- ▶ Do not operate the Display while driving.
- ▶ View the screen, only if the traffic situation allows.

An incorrectly or carelessly mounted Display can impair driving safety!

- ▶ Before each journey, check the seating of the Display and stability of the holder.

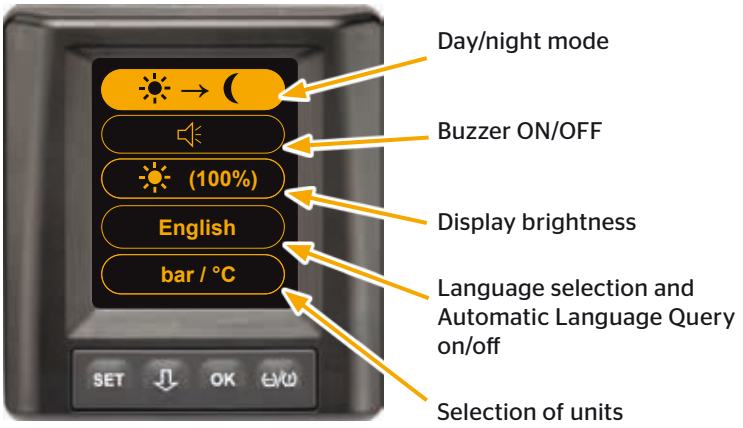
- The ContiPressureCheck™ system supports monitoring of tire pressure. The responsibility for the correct pressure lies with the driver.
- Correct the tire pressure only when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.
- The ContiPressureCheck™ system is a comfort system. It cannot be completely ruled out in the event of adverse conditions that the CPC system does not display any warnings or conversely, that the CPC system displays an incorrect warning.

NOTE

- ▶ Use of snow chains can impair the transmission power of the Tire Sensors in the corresponding tires. This can lead to a delay in transmitting the tire pressures and the resulting warning messages for those tires.

7.2 Setup menu

The following functions can be set in the settings menu:



7.2.1 Open the settings menu

- Press the **SET**-button to open the settings menu.

7.2.2 Navigating the settings menu

Button	Task
⇩	Select between the menu items, selection is highlighted
OK	Change settings or open submenus
SET	Return to vehicle view

If no button is pressed within 30 seconds, the display switches automatically to the vehicle view

7.2.3 Day/night mode

	NOTE
	▶ The display brightness can be adjusted to the day and night conditions with the day/night mode. No dazzling during night driving and sufficient readability during the day.

◆ Press the **OK**-button to switch to the night mode or the vice versa. The display then switches back to the vehicle view automatically.

7.2.4 Switching the buzzer ON/OFF

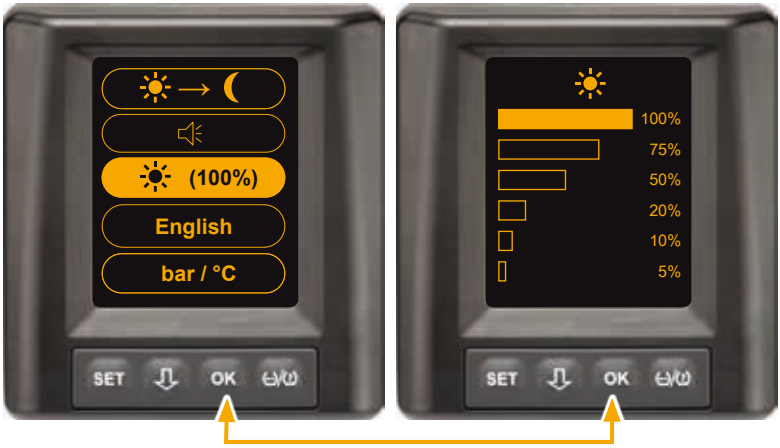
NOTE

- The buzzer can be switched on, to emit an accoustic alarm when a warning message is displayed.
- A deactivated buzzer switches itself on again automatically after the Display has been switched on 50 times.

- Press the **OK**-button to switch the buzzer on or off.
- Press the **SET**-button to confirm the selected setting and switch to the vehicle view.

7.2.5 Display brightness

	NOTE
	▶ The display brightness can be adjusted to the needs of the driver. ▶ Day mode: It is possible to select a brightness level of 50 % or 75 % or 100 %. ▶ Night mode: It is possible to select a brightness level of 5 % or 10 % or 20 %.



◆ Press the **OK**-button to display the Brightness settings sub menu.

◆ Press the ⇩ -button to select the desired brightness level.

◆ Press the **OK**-button to confirm the selection and return to the settings menu.

◆ Press the **SET**-button to return to the settings menu without changes.

7.2.6 Selecting the language

	NOTE
	▶ The language setting can be adjusted to the needs of the driver.

- Press the **OK**-button to display the Language sub menu.
- Press the ⇩ -button to select a language (the selected language is highlighted).
- Press the **OK**-button to confirm the selection and return to the settings menu.
- Press the **SET**-button to return to the settings menu without changes.

7.2.7 Selecting units

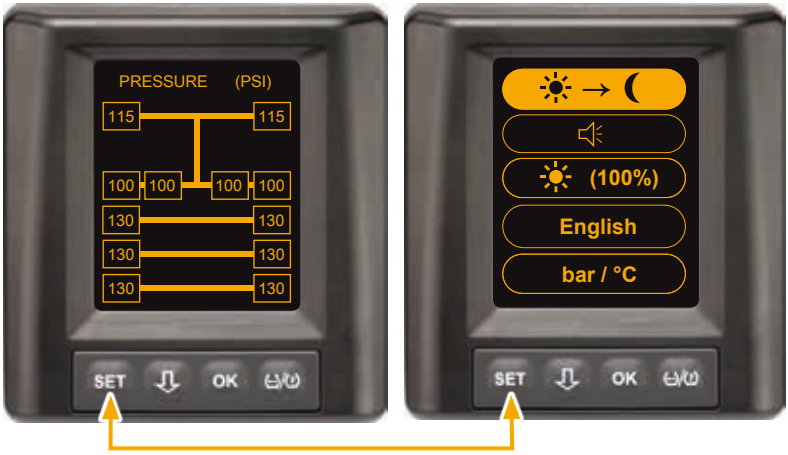
	NOTE
	▶ The units for displaying the pressure and the temperature can be adjusted to the requirements of the driver.

◆ Press the **OK** -button to switch between

- "bar/°C“
- "psi/°C“
- "psi/°F“
- "bar/°F“

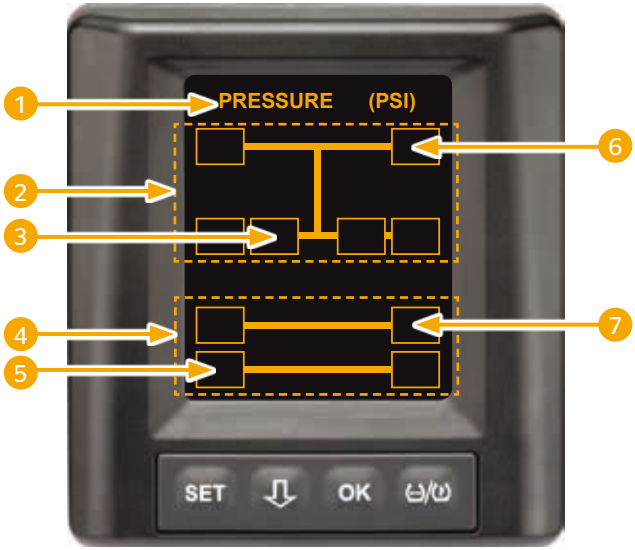
Switching depends on the last setting.

7.3 Switching between the vehicle view and the settings menu



- Press the **SET** -button to switch between the vehicle view and the settings menu.

7.4 Vehicle view: Standard screen to monitor pressure/ temperature



Area	Display
1	Info menu item
2	Layout for a 4x2 truck (the vertical line indicates a truck)
3	Information box for: inner twin tires, 2nd axle, left side truck
4	Layout for a 4-wheel trailer
5	Information box for: tires, 2nd axle, left side trailer
6	Information box for: tires, steering axle, right side truck
7	Information box for: tires, 1st axle, right side trailer

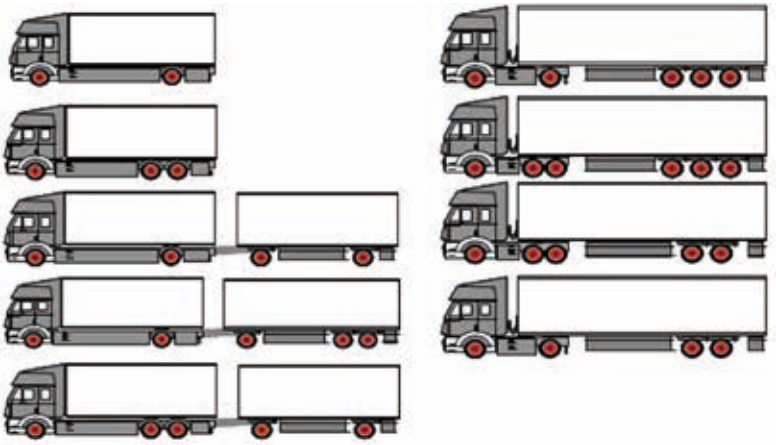
7.5 Operating without automatic trailer detection

7.5.1 General

NOTE

- The ContiPressureCheck™ system covers a variety of truck types and also truck-trailer combinations.
- If a truck/trailer combination remains connected for a longer period of time, the ContiPressureCheck™ system can be configured so that the tire pressures and temperatures of the trailers including the position can be represented in the Display.
- If the trailer is replaced, the configuration in the truck must be updated, otherwise the NO SIGNAL warning for the trailer tires appears after a short time.

The following are some truck versions and truck-trailer combinations:



7.5.2 Start screen for pressure/temperature monitoring

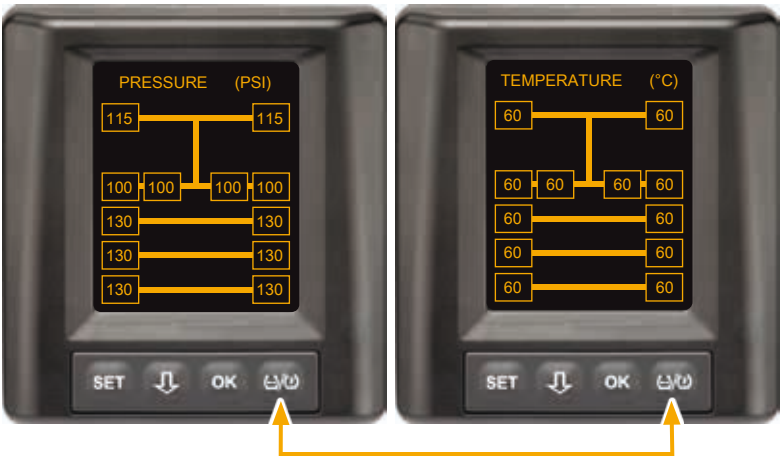
After starting up the vehicle, the following appears in the display:

The CPC system is ready for operation. Tire data will be displayed just after the journey begins.

Tire data is received for the left outer wheel on the 2nd axle.

Tire data is received for all wheel positions and no warnings exist.

7.5.3 Switching between pressure and temperature display



- Press the button to change between the temperature display and the pressure display.

7.5.4 Warning message overview

NOTE

- The driver can be warned by a signal tone in the case of a warning message. The "Buzzer" function must be switched on for this purpose.
- In the event of a warning, respond as described in the following sections. If the warning persists even after taking action, the tires must be manually checked and the installation/configuration of the CPC system must be checked by an authorized garage.
- All actions described in the following sections must be performed while the vehicle is parked at a traffic-free location (such as a car park, parking lot etc.).

Priority:	Level	Symbol	Warning message	Reason
High Low	High	72 2*)	FAST PRESS. LOSS	Continuous, fast pressure loss. Tire damage and tire destruction will occur.
		77 1*), 2*)	VERY LOW PRESSURE	The tire pressure falls below the recommended alarm threshold value. Tire damage or even tire destruction is possible.
		2*)	CHECK SENSOR	The Tire Sensor is no longer properly affixed.
	Low	86 1*)	LOW PRESSURE	The tire pressure falls below the recommended warning threshold value. Tire damage or even tire destruction is possible.
		116	TEMPERATURE	The measured temperature in the tire exceeds 115 °C (239 °F). The Tire Sensor no longer functions at 120 °C (248 °F).
			NO SIGNAL	Due to insufficient signal strength, it is not possible to display a sensor protocol.
			SENSOR DEFECT	Tire Sensor is defective

1*) Tire pressure values shown above are for example proposes only. Recommend tire pressure is set according the tire manufactures' guidance by an authorized garage.

2*) High level warnings are indicated by flashing symbols changing between positive and negative mode.

7.5.5 Low-level warning messages

7.5.5.1 Tire Sensor defect

Warning type: Low-level warning

Warning message: Sensor defect

Error: The Tire Sensor is defective.

Action: Ask the garage to remove the tire as soon as possible and replace the Sensor. (In the case of a defective Tire Sensor, no pressure/ temperature warning is possible).

7.5.5.2 No signal

Warning type: Low-level warning

Warning message: No signal

Error: Due to insufficient signal strength, it is not possible to display a Sensor Protocol.

Action: The authorized garage must clarify the cause for insufficient signal strength. If no signal is received, no pressure/temperature warning is possible.

NOTE

- Under adverse conditions (e. g., strong electromagnetic radiation, strong radio transmitter etc.), signal transmission from some tires can be disturbed so that a "NO SIGNAL" warning occurs.
- In the case of trucks, it can take up to 20 minutes and for trailers, up to 40 minutes to show “NO SIGNAL” warning.
- During this time, pressure/temperature warning is not possible. The last received value is displayed until the NO SIGNAL appears.
- If data from a Tire Sensor is not received in the case of slow moving vehicles < 20 kph (12.5 mph) or vehicles not moving (e.g., due to interference), then the NO SIGNAL message is not displayed. However, the corresponding tire position is empty / without content.
  It is then not possible to monitor the tire at this wheel position during this time and display warnings.

7.5.5.3 Temperature

Warning type: Low-level warning

Warning message: Temperature

Error: The measured temperature in the tire exceeds 115 °C (239 °F). The Tire Sensor no longer functions from 120 °C (248 °F).

Action: Stop the truck immediately at a suitable location. Allow the tire concerned to cool down and then check it.

7.5.5.4 Low pressure

Warning type: Low-level warning

Warning message: Low pressure

Error: The tire pressure falls below the recommended warning threshold value. Tire damage or even tire destruction is possible.

Action: At the next opportunity (e.g., tire service, gas station, etc.) investigate the cause of low pressure and set the correct pressure. If the tire is damaged by a nail for example, arrange a repair or replacement by a specialist as soon as possible.

NOTE

- Correct the tire pressure only when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.

7.5.6 High-level warning messages

7.5.6.1 Check Sensor

Both displays appear alternately at intervals of 1.5 seconds.

Warning type: High-level warning

Warning message: Check Sensor

Error: The Tire Sensor is not properly affixed.

Action: Get the tire removed as quickly as possible by specialist staff at a tire dealer and allow the Tire Sensor and Tire Sensor Container to be replaced by a specialist.

7.5.6.2 Very low pressure

Both displays appear alternately at intervals of 1.5 seconds.

Warning type: High-level warning

Warning message: Very low pressure

Error: The tire pressure falls below the recommended alarm threshold value. Tire damage or even tire destruction is possible.

Action: Stop the truck at a suitable location as soon as possible and investigate the cause of the low pressure.
Top up the tire pressure and make sure that the tire is checked by a specialist as quickly as possible.

	NOTE
	▶ Correct the tire pressure only when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.

7.5.6.3 Fast pressure loss

Both displays appear alternately at intervals of 1.5 seconds.

Warning type: High-level warning

Warning message: Fast press. loss

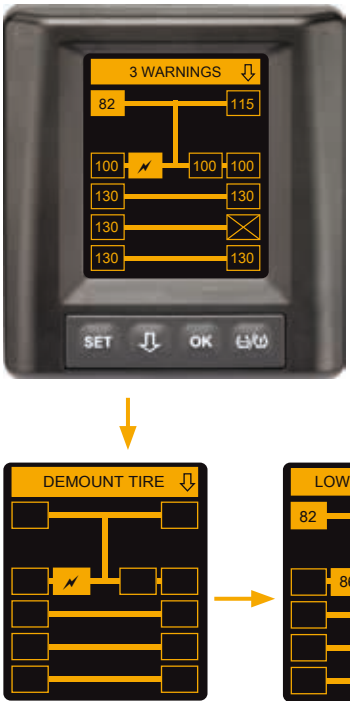
Error: Continuous, fast pressure loss. Tire damage and tire destruction will occur.

Action: Stop the truck immediately at a suitable location and investigate the cause of fast loss of pressure and ensure that the tire is checked by a specialist as soon as possible.

7.5.7 Multiple warnings

If various problems occur simultaneously, a multiple warning screen is displayed. Press the ⇩ -button to call up different warning messages.

Example of a triple warning message:

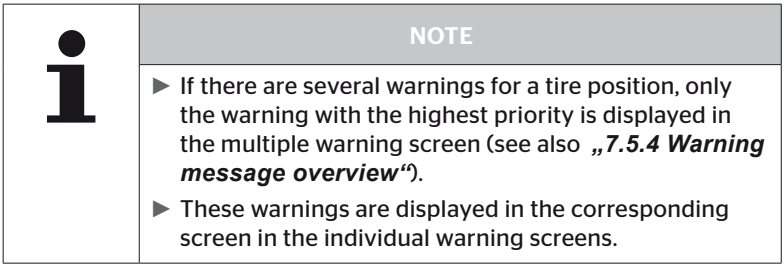


- In the header, the number of different warning messages or the individual warning screens is shown.
  Press the ⇩ -button to call up the individual warning screens.

Individual warning screens show the symbols of the individual warnings.

The display of the individual screens changes every 1.5 seconds if a high-level warning occurs for the displayed tires.

For the meaning of the warning symbols, see chapter ***„7.5.4 Warning message overview“***.



NOTE

- If there are several warnings for a tire position, only the warning with the highest priority is displayed in the multiple warning screen (see also ***„7.5.4 Warning message overview“***).
- These warnings are displayed in the corresponding screen in the individual warning screens.

7.6 Operating with Automatic Trailer Learning (ATL*)

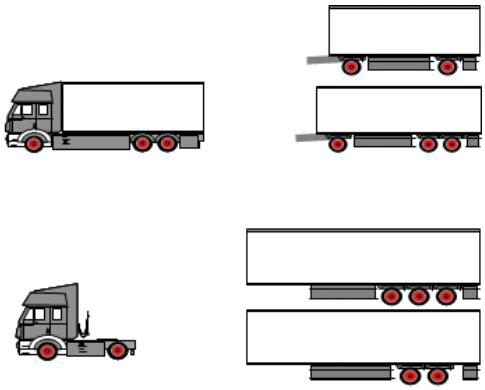
7.6.1 General

NOTE

- The ContiPressureCheck™ system is installed and configured for a certain truck combination.
- When trailers are changed frequently, the ATL function (Automatic Trailer Learning) is installed in the truck system.
- ATL allows different trailers to be monitored without the need to update the configuration of the truck system.
- The number of trailer changes is unlimited. The prerequisite is that each tire on the trailers to be monitored is equipped with Tire Sensors.
- For the Automatic Trailer Learning (ATL) to function, the vehicle must be moved over a time of > 10 minutes at a speed > 30 kph (19 mph).

* ATL is an optional function and is not activated in all CPC systems.

The following shows two examples for truck-trailer combinations with automatic trailer detection:



	NOTE
	If an independent, complete ContiPressureCheck™ system is installed in a trailer (status indicator via a Pressure Check Indicator installed on the trailer), and if the trailer is also monitored from the truck, then all warning messages must always be investigated even when the they are only displayed on one of both systems.

7.6.2 Start screen for automatic trailer learning

After starting up the vehicle, the following appears in the display:

The CPC system is ready for operation. Tire data is displayed just after the journey begins. The automatic trailer detection (ATL) is not yet complete.

Data is received for all truck wheel positions and the automatic trailer detection (ATL) is not yet complete.

Final screen:

Tire data is received for all truck wheel positions. The automatic trailer learning (ATL) is not yet complete. The values for the pressure and the temperatures inside the tires are within the permitted value range.
Example shows a truck with 10 tires and that a trailer with 8 tires was identified.

	NOTE
	▶ The values of the truck tires are displayed individually at their respective position. ▶ If there is a problem with a trailer tire, only the value is displayed without specifying the position.

7.6.2.1 No trailers found with Tire Sensors

In the following three scenarios the below messages will be shown:

- No trailer is hooked.
- Trailer is hooked, but no Tire Sensors are mounted in trailer tires.
- Reception of **all** trailer Tire Sensors is bad.

Data is received for all truck wheel positions, the automatic trailer detection (ATL) is finished. However, no trailer with Tire Sensors was found.

After 60 seconds.

7.6.2.2 Special cases with automatic trailer learning

Example 1:

Too few tires are detected.	
Cause	**Remedial action**
A lifting axle is raised during the learning phase, and this means that these lift axle tires are not detected in the learning process. For example, only 4 tires are displayed instead of the expected 6 tires.	
If any of the trailer tires are further away from the towing vehicle or are strongly shielded (e.g., a load-loader), it is possible that the Tire Sensors are not detected due to bad reception.	◆ Contact an authorized garage, allow the Additional Receiver to be suitably aligned / positioned or install a separate CPC system into the trailer

Example 2:

The learning phase takes up to 30 minutes.	
Cause	**Remedial action**
During the learning phase, another, moving vehicle was in the vicinity of a CPC system.	
Some of the Tire Sensors of the trailer have restricted reception. This prolongs the ATL learning phase.	◆ Contact an authorized garage, allow the Additional Receiver to be suitably aligned / positioned or install a separate CPC system into the trailer

Example 3:

The values of the old trailer continue to be displayed after the trailer is decoupled or was exchanged.	
Cause	**Remedial action**
Trailer decoupled and the truck continues to drive within the next 15 minutes. The system assumes that the trailer is still coupled and continues to display the trailer tires. After approx. 40 minutes, NO SIGNAL is displayed for all trailer tires.	◆ It is recommended to switch off the ignition for at least 20 seconds after decoupling a trailer.
Trailer was exchanged within 15 minutes. The system assumes that the previous trailer is stilled coupled and display the number of tires of the previous trailer. After approx. 40 minutes, the NO SIGNAL warning is displayed for all trailer tires.	◆ It is recommended to switch off the ignition for at least 20 seconds after exchanging a trailer.

Example 4:

Occasionally too many tires are learned.	
Cause	**Remedial action**
During automatic trailer detection, all signals from unknown Tire Sensors in the immediate vicinity recognized. In addition, only signals from moving vehicles are accepted that are in the immediate vicinity for approx. 8 to 10 minutes (approx. 5 to 10 m (16 to 33 ft) distance) of the truck (such as the newly coupled trailer). If another vehicle with Tire Sensors is in the immediate vicinity during the entire learning phase, it is possible that some of the Tire Sensors of the other vehicle are also learned.	◆ Stop the vehicle and restart the learning procedure by switching of the ignition for at least 20 seconds.

Example 5:

During automatic trailer detection, every time same number of tires detected which is more than the total trailer tires.	
Cause	**Remedial action**
For ATL, the Automatic Single Wheel Exchange (SWE) is deactivated. If a tire or a Tire Sensor of the towing vehicle was exchanged, the CPC system of the towing vehicle will not be detected. The new Tire Sensor is considered to be unknown and interpreted as a Tire Sensor on the trailer during each ATL learning procedure. The same applies accordingly if more than one Tire Sensor on the towing vehicle are exchanged without changing the configuration of CPC system.	◆ The configuration of the CPC system of the towing vehicle must be updated with the new Tire Sensors. For this, the following menu items are available in the Hand-Held Tool (HHT): - **Installation - New Installation** or - **Modification - Modify Installation - Modify Sensor IDs**

NOTE

▶ Obtain all information and handling instructions on the Hand-Held Tool from the ***"Hand-Held Tool User Manual"***.

7.6.3 Warning messages in the case of automatic trailer detection

Example of a high-level warning for a trailer tire:

Both displays appear alternately at intervals of 1.5 seconds.

1 of 8 trailer tires has a problem.

The position of the tire concerned will not be displayed.

For the meaning of the warning symbols and for corrective actions, see chapter ***„7.5.4 Warning message overview“***, ***„7.5.5 Low-level warning messages“*** and ***„7.5.6 High-level warning messages“***.

NOTE

- For any pressure warning:
  Check pressure at all trailer tires until the tire with the corresponding warning is found.
- For temperature indication:
  Stop the truck immediately at a suitable location.
  Allow the tires to cool down and then check them.
- For any other warning:
  Get in contact with an authorized garage.

7.6.4 Multiple warnings for trailer tires in the case of automatic trailer detection

Both displays appear alternately at intervals of 1.5 seconds.

Example of a 4-fold warning message:

At least 4 of 8 trailer tires have a problem.

If more than 4 trailer tires have a problem, only high-priority warnings are displayed.

For the priorities of the warning messages and the meaning of the warning symbols, see chapter ***„7.5.4 Warning message overview“***.

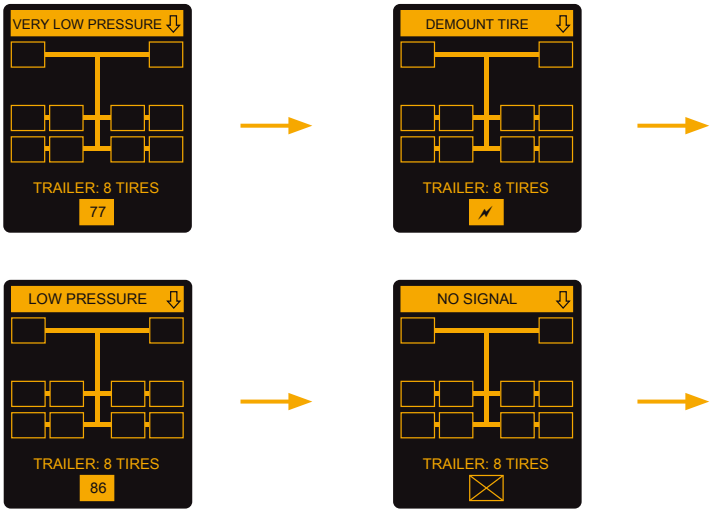
The position of the tire concerned will not be displayed.

NOTE

- For any pressure warning:
  Check pressure at all trailer tires until the tire with the corresponding warning is found.
- For temperature indication:
  Stop the truck immediately at a suitable location.
  Allow the tires to cool down and then check them.
- For any other warning:
  Get in contact with an authorized garage.

Press the ⇩ button to call up different warning messages.

- In the header, the number of different warning messages or the individual warning screens is shown.
  Press the ⇩ -button to call up the individual warning screens.



Individual warning screens show the symbols of the individual warnings. The display of the individual screens changes every 1.5 seconds if a high-level warning occurs for the displayed tires. For the meaning of the symbols, see chapter ***„7.5.4 Warning message overview“***.

7.6.5 Multiple warnings for truck and trailer tires in the case of automatic trailer detection

Both displays appear alternately at intervals of 1.5 seconds.

5 different warning messages for truck and trailer tires.

3 of 10 truck tires have a problem. The positions of truck tires concerned are displayed.

At least 4 of 8 trailer tires have a problem. The positions of trailer tires concerned will not be displayed.

If more than 4 trailer tires have a problem, only high-priority warnings are displayed.

For the priorities of the warning messages and the meaning of the warning symbols, see chapter ***„7.5.4 Warning message overview“***.

The position of the tire concerned will not be displayed.

- The number of different warning messages or the individual warning screens appear in the Info menu item.
  Press the ⇩ -button to call up the individual warning screens.

7.6.6 Automatic Trailer Learning with Surrounding Observer (SO*)

The Surrounding Observer (SO) is an additional option for Automatic Trailer Learning (ATL).

	NOTE
	▶ The trailer monitor by means of ATL only works when the trailer is moved for at least 10 minutes at a speed of >30 kph (19 mph). Warnings can only be displayed after completion of ATL.

* SO is an optional function and is not activated in all CPC systems.

In order to be able to detect a tire with extreme low pressure at the beginning of the journey, the Surrounding Observer (SO) at the ContiPressureCheck™ system can be activated using the Hand-Held Tool (HHT).

The surrounding observer evaluates **all** Tire Sensor signals received after the ContiPressureCheck™ system is switched on and checks whether there is extreme low pressure.

If extreme low pressure is indicated by Tire Sensors received, a VERY LOW PRESSURE warning is displayed for the tire. This only happens when ATL has not been completed.

The VERY LOW PRESSURE warning is based on the target pressure set for the ATL. If for example, 7.0 bar (100 psi) is set as target pressure for ATL, then warnings for all Tire Sensors are displayed that measure a pressure lower than 5,6 bar (80 psi).

Illustration of ATL + SO during the learning phase.

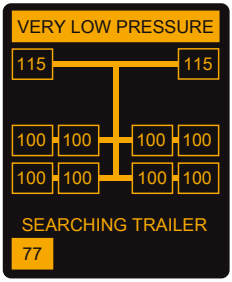
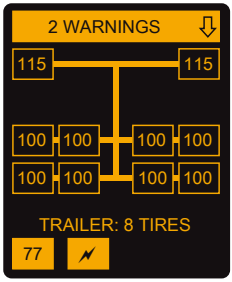


Illustration after successful learning phase.



Whether the Surrounding Observer (SO) was activated can be seen if an VERY LOW PRESSURE warning is displayed during the learning phase. The learning phase is indicated by SEARCHING TRAILER.

- The illustration on the left shows a warning with activated Surrounding Observer (SO).
- The illustration on the left shows warnings from a successfully learned trailer.

When trailer learning is completed, ATL and Surrounding Observer (SO) end automatically.

NOTE

- The Surrounding Observer **only** displays the VERY LOW PRESSURE warning. All other warnings are only displayed when ATL is connected.
- The VERY LOW PRESSURE warning from the Surrounding Observer may not come from the own trailer but can also come from the neighboring vehicle. However, the driver has the option in the event of a warning to check his own trailer for low pressure.

7.7 Automatic Single Wheel Exchange (SWE)

The "Automatic **S**ingle **W**heel **E**xchange" (SWE) enables easy exchange of a single Tire Sensor.

	NOTE
	▶ If the ATL (Automatic Trailer Learning) function is activated, the then automatic Single Wheel Exchange (SWE) is deactivated. ▶ If a lifting axle is raised, the automatic Single Wheel Exchange (SWE) does not function. The new Tire Sensor is only detected after the lifting axle has been lowered. It is irrelevant at which position the wheel was exchanged.

If a single tire with Tire Sensor is replaced after CPC was already configured, the CPC system detects this automatically. Reconfiguring with the Hand-Held Tool is not necessary.

- The new Tire Sensor is usually detected automatically during the first journey after replacing the tire.
- This procedure is completed after approx. 10 minutes of driving. Prerequisite is a speed of min. 30 kph (19 mph) during the duration of driving.
- No pressure value is visible in the corresponding tire symbol during this learning procedure.

	NOTE
	▶ If the detection fails during the first drive, the message "NO SIGNAL" appears on the display for this tire position and the Pressure Check Indicator flashes slowly. ▶ To restart wheel exchange detection, the vehicle must have been standing still for 20 minutes. The CPC system restarts the automatic Single Wheel Exchange (SWE) each time until the new wheel has been detected.

8 Error messages

If the function of the ContiPressureCheck™ system is disturbed, the following error messages could be displayed:

Error message	Cause	Action
	ContiPressureCheck-™ system is not ready.	Contact an authorized garage as soon as possible to arrange a repair.
The warning (DISPLAY ERROR 1006) illustrated above is displayed only in English irrespective of the language set		
	ContiPressureCheck-™ system is not ready.	An authorized garage must activate the ContiPressure-Check™ system.
	Installation of the ContiPressureCheck-™ system was not properly carried out.	An authorized garage must complete the installation process.

9 Pressure Check Indicator

The Pressure Check Indicator is located on the trailer.

- During operation, make sure that the Pressure Check Indicator is visible in the rear-view mirror. For this, the Pressure Check Indicator lights up for 15 seconds after starting the vehicle each time.

	NOTE
	▶ At speeds exceeding 110 kph (70 mph), the visibility of the Pressure Check Indicator can be restricted.

9.1 Pressure Check Indicator operating modes

	NOTE
	▶ To check the functional capability of the CPC system on the trailer, it is necessary to switch the CPC system on and off regularly). • If the control device installed in the trailer is **not** connected to a continuous power supply, the Pressure Check Indicator lights up for 15 seconds after ignition on. • If the control device installed in the trailer is connected to a continuous power supply, the Pressure Check Indicator lights up **only** when the vehicle battery is switched on.

Automatic functionality checking:

In addition to the above mentioned cases, in the following situations the Pressure Check Indicator lights up for 15 seconds in order to signal the functionality of the CPC system in the trailer to the driver.

- If the trailer is not moved for more than 15 minutes and then the trailer is moved with a speed > 30 kph (19 mph),
- If the trailer is moved at a speed < 30 kph (19 mph) for more than 15 minutes, and then the trailer is moved with a speed > 30 kph (19 mph).

Pressure Check Indicator

The Pressure Check Indicator is visible in the left side mirror, it indicates the following operating modes:

Display	Operating status	Note
No signal	No warning messages for the trailer exist.	If the Pressure Check Indicator or the CPC system fails during the drive, this will not be indicated. In this rare case the tire pressure monitoring of the trailer is not possible. The driver can check the functionality at the start of next ignition cycle (see next point).
Lights up for 15 seconds (when switching on the CPC system and when moving off after a longer break)	The CPC system and the Pressure Check Indicator are ready for operation.	If the Pressure Check Indicator does not produce a signal when switching on the CPC system (ignition or pressing the main battery switch), either the CPC system on the trailer is not ready for operation or the Pressure Check Indicator is defective. In this case, monitoring of the tire pressure on the trailer is not possible and it is necessary to go to an authorized garage as quickly as possible.
Flashes slowly (every 2 seconds)	There is a "low" level warning on the trailer.	At the next suitable place (such as parking lot, rest area, gas station), check the pressure of all trailer tires and correct if necessary*. If slow flashing continues after driving off, go to an authorized garage. Otherwise the same measures apply to low-level warning as described in the chapter ***„7.5.5 Low-level warning messages“***.

Display	Operating status	Note
Flashes quickly (5 x per second)	There is a "high" level warning on the trailer.	Stop the truck safety as quickly as possible. Check all trailer tires for fast pressure loss or extreme low pressure. In this case, allow a specialist to check the tires and repair or exchange if necessary. If, after these measures, fast flashing begins again after continuing the journey, go to an authorized garage. Otherwise the same measures apply to high-level warning as described in the chapter **„7.5.6 High-level warning messages“**.

NOTE

In case tire pressure need to be corrected:

- ► Correct the tire pressure only when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.

NOTE

Operating modes of the Pressure Check Indicator after parking the trailer.

- ► In the case of a warning (flashing), it is possible that the flashing stops if the trailer is parked or is moved slowly for a time period of 30 minutes (< 15 kph) (9 mph)).
- ► In case warning exists and if the CPC trailer system is connected to continuos power supply (battery), the Pressure Check Indicator will remain flashing for 30 minutes, after ignition is switched off.

9.2 Readjusting the Pressure Check Indicator

If the Pressure Check Indicator is incorrectly adjusted and is therefore not sufficiently visible during ignition, it must be readjusted.

To adjust the Pressure Check Indicator, proceed as follows:

- Loosen the locknut on the Pressure Check Indicator and adjust the Pressure Check Indicator to make sure, the indicator is visible from the driver's side mirror.
- Subsequently tighten lock nut to 2 Nm (1.5 lb-ft) (finger-tight) so that the ball joint of the rubber arm can no longer move.

	NOTE
	▶ At temperatures under 2 °C (36 °F), the tightening torque should not exceed 2 Nm (1.5 lb-ft) otherwise damage could occur. ▶ Adjust the tightening torque accordingly at high temperatures. ▶ It is recommended to arrange a check or adjustment at an authorized garage.

10 Cleaning the Display

ATTENTION

Pay attention to the following cleaning and safety instructions before cleaning the Display:

- Clean the Display with a dry, soft, lint-free cloth only.
- Even when cleaning stubborn dirt, the cleaning cloth may only be slightly dampened with a little water.
- Do not use aggressive or abrasive cleaning agents when cleaning stubborn dirt and never use solvents that could attack the plastic surface of the Display.

11 Maintenance

- Clean the light surface of the Pressure Check Indicator at regular intervals.
- Keep the central control unit and the Additional Receiver free of soiling such as snow or slush in order not to impair the reception.
- Check all screw and plug-in connections at regular intervals when using the CPC system.

12 Disposal

12.1 General instruction

Continental is committed to the protection of the environment. As with other old devices, the system can be returned to Continental via the normal channels. For details of disposal, please contact your authorized sales partner.

- Sort metals and plastics carefully for recycling or scrapping.
- Dispose of all other components such as cleaning agents or electrical components (such central control unit, Additional Receiver) according to legal regulations.

12.2 Tire Sensor

	NOTE
	▶ Before disposing of a tire, the Tire Sensor must be taken out. ▶ If the Tire Sensor is to continue to be used, pay attention to the service life and operating time of the Tire Sensor according to the chapter ***"3.1 Tire Sensor of the installation instructions"***.

The Tire Sensor contains a lithium battery that is cast into the housing and cannot be replaced. After reaching the end of its service life, the Tire Sensor must be disposed of in accordance with all current local, regional and national laws and regulations. For this, a return to the place of purchase or an authorized CPC dealer or the return to the central CPC collection point is possible (address, see chapter ***„12.4 CPC collection point"***).

12.3 Electrical/electronic components

All other electrical/electronic components except Tire Sensors must be disposed of in accordance with local, regional and national laws and regulations. In case of any questions, please contact your local authority responsible for waste disposal.

12.4 CPC collection point

Address:

Continental Trading GmbH

"Abteilung Entsorgung"

VDO-Straße 1

Gebäude B14

64832 Babenhausen

Germany

13 Declaration of Conformity

The CPC system meets the basic requirements and relevant regulations of the European Union (EU) and the USA as well as other countries listed at www.contipressurecheck.com.

The complete original declaration of conformity is in the package leaflet:

EC-Declaration of Conformity

Déclaration CE de Conformité

EG-Konformitätserklärung

or at www.contipressurecheck.com.

14 Certifications

The individual certificates are included with the system documents and/or are available at www.contipressurecheck.com.

14.1 Radio permit

A radio permit was issued for the CPC system in the following countries.

See list of countries package leaflet:

Homologation Certificate Vehicle Components

14.2 General Operating Permit

A general operating permit (Allgemeine Betriebserlaubnis - ABE) from the Kraftfahrt-Bundesamt (KBA) (Federal Motor Vehicle Transport Authority) was issued for the CPC system.

See package leaflet:

ALLGEMEINE BETRIEBSERLAUBNIS (ABE)

14.3 ADR

The CPC system is principally designed for hazardous material (ADR) vehicles.

A declaration of conformity according to ADR is available for the CPC system and includes the approved hazardous goods classes.

See package leaflet:

ADR-Konformitätserklärung CPC-System

The latest version can be found at www.contipressurecheck.com.

15 Index

A

Abbreviations 7
Automatic Language Query 17
Automatic
Single Wheel Exchange (SWE) ... 54
Automatic Trailer Learning (ATL) 40

C

Certifications 64
Cleaning the Display 60
Customer service 9

D

Declaration of conformity 63
Disposal 61

E

Error messages 55

I

Installation 14
Intended use 10

L

Liability disclaimer 6

M

Maintaining the system 61
Manufacturer's address 9
Multiple warnings 38

O

Operating keys 13

P

Pressure Check Indicator 56
- Alignment 59
- Operating modes 56

S

Safety 10
Setting the language 18
Setup menu 20
- Day/night mode 21
- Display brightness 23
- Selecting the language 24
- Selecting units 25
- Switching the buzzer ON/OFF . 22

Start screen 17
Surrounding Observer (SO) 52
Symbols 7

T

Technical data 9

W

Warning messages 30
- Check Sensor 35
- Fast pressure loss 37
- Low pressure 34
- No signal 33
- Sensor defect 32
- Temperature 34
- Very low pressure 36

Warnings 8

Continental Reifen Deutschland GmbH
Büttnerstraße 25
30165 Hanover
Germany

www.contipressurecheck.com
www.continental-truck-tires.com
www.continental-corporation.com

Continental
The Future in Motion

CPC_UM_long_EN_GB_V3_072015 A2C81588600 - 17340260000